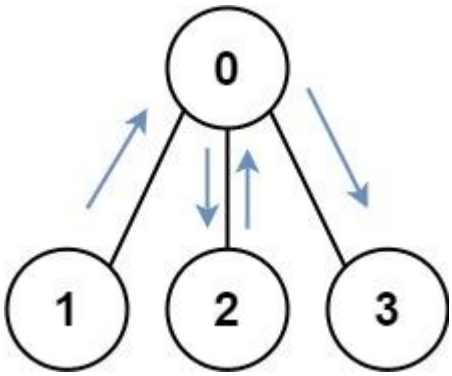
Shortest Path Visiting All Nodes (View)

You have an undirected, connected graph of `n` nodes labeled from `0` to `n - 1`. You are given an array `graph` where `graph[i]` is a list of all the nodes connected with node `i` by an edge.

Return *the length of the shortest path that visits every node*. You may start and stop at any node, you may revisit nodes multiple times, and you may reuse edges.

Example 1:

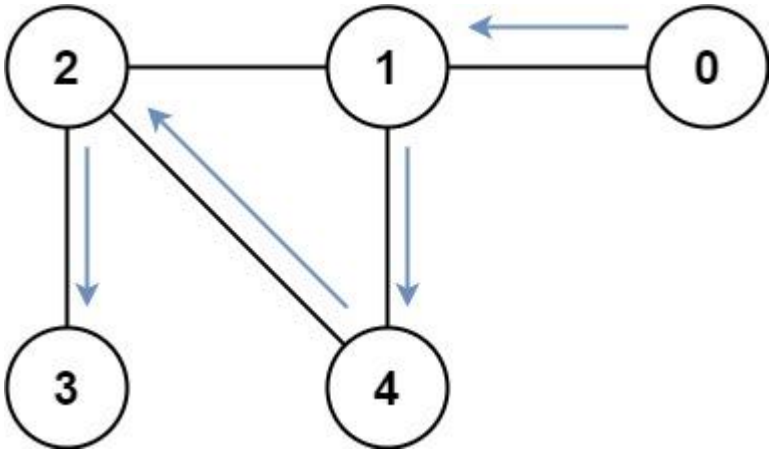



```
Input: graph = [[1,2,3],[0],[0],[0]]

Output: 4

Explanation: One possible path is [1,0,2,0,3]
```

Example 2:




```
Input: graph = [[1],[0,2,4],[1,3,4],[2],[1,2]]

Output: 4

Explanation: One possible path is [0,1,4,2,3]
```

Constraints:

- `n == graph.length`
- `1 <= n <= 12`
- `0 <= graph[i].length < n`
- `graph[i]` does not contain `i`.
- If `graph[a]` contains `b`, then `graph[b]` contains `a`.
- The input graph is always connected.